



A&E REPORTING REQUIREMENTS



A&E REPORTING REQUIREMENTS



- MLSR
- Malfunction Reporting
- Defect Reporting
- Explosives Mishap Reporting
- Class B Mishap AT-4 Discharge (example)



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Missing, Lost, Stolen, or Recovered (MLSR) Report

- An MLSR must be submitted for any of the items listed below within 48 hours: (MCO 5530.14A, appendix L)
 - One or more missile or rocket rounds
 - One or more machine guns
 - One or more automatic fire weapons
 - One or more manually operated semiautomatic weapons
 - Over 1,000 rounds or more of ammunition smaller than 20mm
 - Individual rounds of 20mm and larger ammunition



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- **Missing, Lost, Stolen, or Recovered (MLSR) Report**
 - Any frag, concussion, or HE grenades including artillery or ground burst sims, or any other simulator or device containing explosive material
 - Demolition explosives and detonators including det cord, DETA sheet, cutters, flexible linear shape charges, blocks of explosives, other explosives, and blasting caps



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- **MLSRS reportable quantities continued:**
 - Armed or attempted armed robberies of AA&E facilities
 - Forced or attempted forced entries into AA&E facilities
 - Evidence of terrorist involvement in the theft of AA&E
 - Incidents involving AA&E that cause significant news coverage, or appear to have the potential to cause such coverage
 - Evidence of trafficking or bartering involving AA&E, illegal drugs, etc. regardless of the quantity of



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Malfunction Report

- **Malfunction**
 - The failure of an ammunition item to function as designed, intended, and expected performance when fired.
- All ammunition malfunctions require reporting by the organization.
 - **Class A** – Any Malfunction resulting in Fatality or Permanent Total Disability, or property damage is excess of 2 million dollars.
 - **Class B** – Any Malfunction resulting in Permanent Partial Disability, or when 3 or more personnel are hospitalized for impatient care, or property damage between 500,000 and 2 million dollars
 - **Class C** – Any Malfunction resulting in one or more days from work or property damage between 50,000 and 500,000 dollars.
 - **Class D** – Property damage below 50,000 dollars.



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- Units experiencing a Class A, B, or C Malfunctions shall contact MARCORSYSCOM within 8 hours of malfunction by telephone.
 - An initial malfunction report must be submitted within 24 hours via naval message.
 - A supplemental malfunction report shall be submitted within 5 working days of the malfunction via naval message.



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- Class D Malfunctions will be reported within 96 hours of malfunction
 - Conduct formal investigations involving casualties, equipment damage, and potential safety issues.
- Reference: MCO 8025.1E and Class V(W) Malfunction and Defect Reporting message dtd 132004Z Apr 12.

[A](#) [B](#) [C](#) [D](#) [E](#) [F](#) [G](#) [H](#) [I](#) [J](#) [K](#) [L](#) [M](#) [N](#) [O](#) [P](#) [Q](#) [R](#) [S](#) [T](#) [U](#) [V](#) [W](#) [X](#) [Y](#) [Z](#) [1-9](#)

NOTE: THE COLUMNS CAN BE RESORTED BY CLICKING ON ITS HEADER NAME.

DODIC: B643

Typical Failure Modes: Close-In Premature, Duds, Ignition Separation, Misfires, Short Rounds.

DODIC Malfunction Summary Totals

DODIC	Failed	Injuries	Fatalities
B643	1,141	6	0

Records 1 to 15 of 97

DODIC Malfunction Summary

Type	DODIC	Lot	Cog	Year	Summary	Fired	Failed	Injuries	Fatalities	MCPD Response	Cause
MAL	B643	MA-01F062-001	OT	2009	Upleg premature detonation (1/?) at +75 ft. Two major INJURIES reported.	0	1	2	0	Init: Suspend ALN to CC-J, pending further eval; 26May09. // Final: - open -	Unknown
MAL	B643	MA-07C068-003	OT	2008	Misfire (1/540) - primer was dented. No injuries or damage reported.	540	1	0	0	First reported malfunction for ALN, or w/ign ctg ALN MA-05C033-001; Probable cause of misfire was defective primer or ign ctg; Retain in CC-A; per LCM04-1/I.3.1.a.04 / 06 Mar 2008.	Ammunition
MAL	B643	MA-07C068-003	OT	2008	Misfire (1/216) - failed to fire in three different weapons, primer was dented. No injuries or damage reported. [Misfire qty corrected]	216	1	0	0		
MAL	B643	MA-01K063-009	AR	2007	Short rnd (1/?) landed/functioned approx 700m short of target. INJURIES reported.	2	1	0	0	[Init: Suspend to CC-J, pending Army investigation, per Reclass Review of A-NAR 07-0077/ 27 Nov06. // Final: - open -]	Unknown
MAL	B643	MA-01K063-009	AR	2007	Duds (20/200) over seven days of firing. No injuries or damage reported.	200	20	0	0	First reported malfunction; Possible cause of duds was failure of M53 delay element; Retain ALN in CC-A; per LCM07-1/I.3.1.a.005/ 29 Nov 2006.	Ammunition
MAL	B643	MA-01F062-002	OT	2006	Short rnds (8) approx 200m short of target and Duds (6) out of 228 rnds fired. No injuries or damage reported.	228	14	0	0		
MAL	B643	MA-00H060-001	AR	2005	Misfires (3) and Duds (8) out of 44 rnds fired. No injuries or damage reported.	44	11	0	0		
MAL	B643	MA-01G063-001	AR	2005	Short rnd (1/92) flew approx 150m downrange - Fin split longitudinally and separated from ctg when dropped in tube. No injuries or damage reported.	92	1	0	0	[Init: Suspend ALNs w/ WMZ_013 fins; per Reclass Review of A-NAR 05-0175/ // Final: - open -]	Manufacture
MAL	B643	MA-01H063-003	AR	2005	Fin separation/split (1/352)- fin found in mortar tube. No injuries or damage reported.	352	1	0	0		
MAL	B643	MA-00J060-003A	OT	2004	Misfire (1/341) w/ six attempts to fire from 2 wpns. Primer was 'slightly' dented. No injuries or damage reported.	341	1	0	0	First reported malfunction for Lot; Causes of misfire/ignition ctg failure include inverted or missing primer, contaminated or missing black powder pellet, blocked flash channel, or low/ign propellant. Retain in	Manufacture



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Defect Reporting

- **Defect**
 - An imperfection which may prevent an item from functioning as intended or result in a malfunction.
- Employment of a defective A&E item may result in casualties and or weapons damage.
- When a defect is detected the following actions are required;
 - Return the defective item to the ASP
 - A Defect report will be submitted within 5 days of the defect being Identified.
- Reference: MCO 8025.1E and Class V(W) Malfunction



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- D579 - Exudate from fuze wells - 2004.
- Reported by USMC at Army storage sites.
- Cause is an impurity in the TNT filler in the projo.
- Rounds w/ noticeable exudate should be reported, destroyed – not fired, per AIN.



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- C870 - Cracked fins - 2004. Reported by USMC during renovation at CLNC.
- Cause of cracking was determined to be use of non-spec aluminum during manufacture.
- Renovation to replace fins has been completed.

SAFETY ALERT



MISSFIRE/HANGFIRE



Misfire. A misfire is a failure of a round to fire after initiating action is taken. This may be due to the failure in functioning of the primer, igniter, propelling charge, or firing mechanism. A misfire in itself is not dangerous; it cannot be immediately distinguished from a hangfire. Therefore, misfires must be treated as delayed firings until determined otherwise.

Hangfire. A hangfire is a delay in the functioning of the primer, igniter, or propelling charge. The delay, although unpredictable, ranges from a fraction of second to several minutes. A hangfire cannot be distinguished immediately from a misfire.



EXPLOSIVE MISHAP: A cannonier was injured while attempting to fire a M777 Howitzer. They had attempted to fire the weapon system twice and it was believed to be a malfunction firing latched lever malfunction. Cannonier was instructed to hook the lanyard directly to the firing mech but firing mech fell off. Cannonier was instructed to put the firing mech back on and while attempting to put on the firing mech back on the howitzer fired hitting the cannonier on the head.

IT IS IMPORTANT TO APPLY APPROPRIATE MISFIRE PROCEDURES (MISFIRES, HANGFIRES, COOKOFFS, ECT...) TO AVOID SERIOUS INJURIES AND POSSIBLE DEATH.



SAFETY ALERT

References:
BASE RANGE SAFETY SOP



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- Description of the Mishap:
 - Marine was on the M249 saw and was firing the weapon in short bursts. The weapon, which had previously been firing smoothly and consistently, experienced a stoppage. Marine commenced to conduct his immediate action to the stoppage, racked the weapon, and unsuccessfully attempted to resume firing. **At this time he transitioned into his proper remedial action, ducking his head away from the weapon so that his helmet would offer protection.** He then waited eight seconds prior to opening the feed tray cover. Upon doing so, the apex group civilian contractor, reached out to clear away the ammunition and check for any obstructions. As the civilian contractor was reaching towards the feed tray, one of the rounds exploded causing a blast injury to the civilian contractors hand, and minor burns to the Marine's wrist and



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Explosives Mishap Reporting

- Establish WESS accounts using the WESS reporting link from:
 - COMNAVSAFECEN homepage or <http://safetycenter.navy.mil/>
 - via safe_wesshelp@navyil
 - via siprnet to rfk_safetycenter@navy.smil.mil
 - via m_nrfk_safetycenter@navy.smil.mil
 - <http://safetycenter.navy.mil/wess/>
 - ESAMS (MCIEAST)



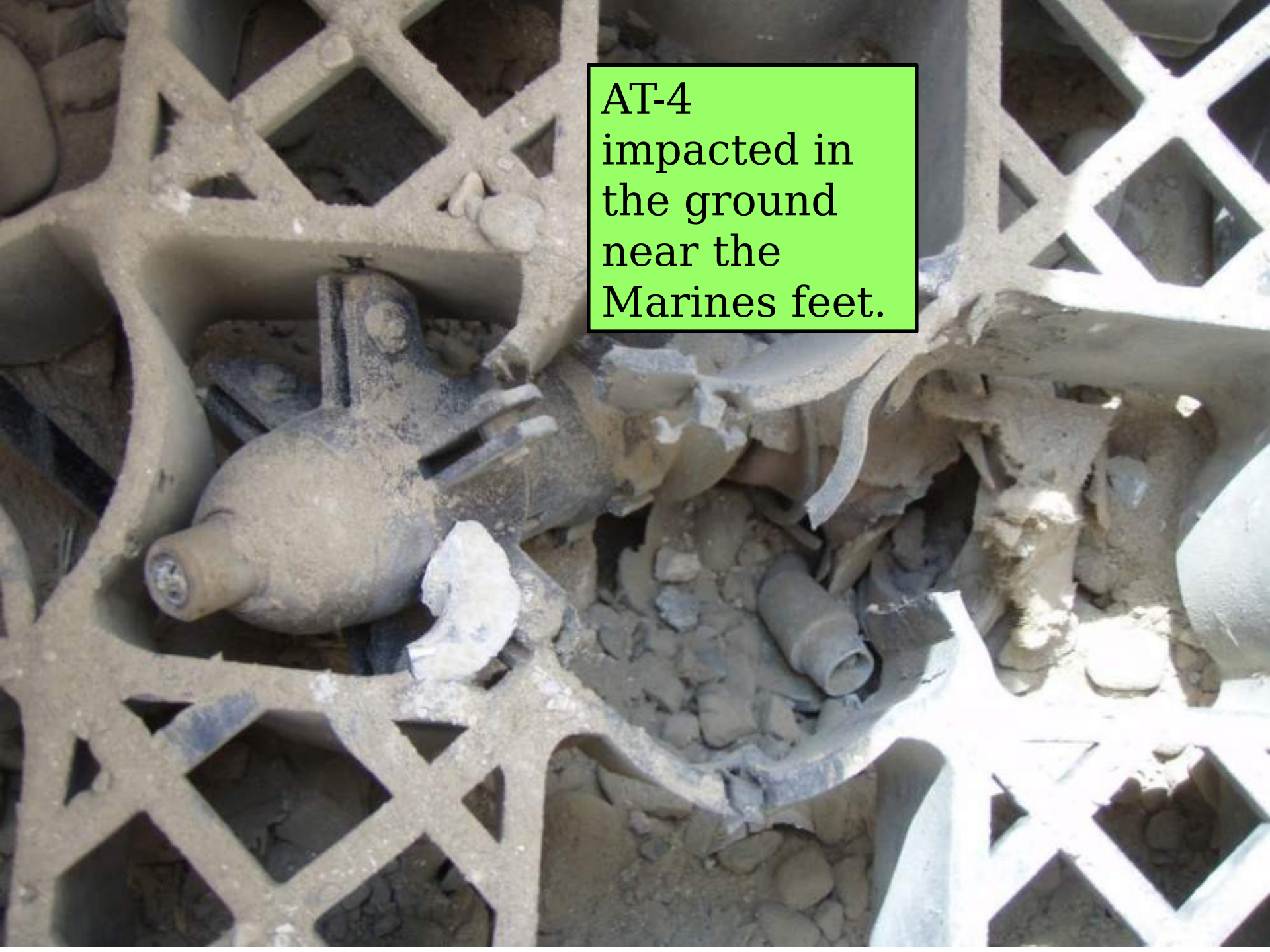
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- Those explosives incidents that do not meet the mishap severity classification of class A, B, or C will be reported as an Explosives Event Report (EER).
- Reference: MCO 5100.29B.

Cocking Lever
was in the
cocked position





AT-4
impacted in
the ground
near the
Marines feet.



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Class B Mishap AT-4 Discharge

- Who: Two Marines
 - Both Marines were with a Mar Div (FWD) on foot.
- What: AT-4 discharge, blast caused loss of four fingers to left hand of 1st Marine and left tympanic membrane rupture, disorientation, and confusion to the 2nd Marine (non-permanent injury)
- When: 2010
- Where: FOB



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- During August an Infantry Company Arrived at the FOB
- The Company left all equipment they could not carry while dismounted at a Company Resupply Point under a solar shade on the FOB.
- They departed the FOB to conduct dismounted combat operations in the green zone. Two Marines were left with the Remain Behind Element to guard the Equipment.
- The 1st Marine was handling an AT-4 when it discharged, impacting the ground and sustained the loss of four fingers on his left hand due to the blast.
- The 2nd Marine sustained a left tympanic membrane rupture, disorientation, and confusion due to being in the



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- Both Marines were medically evacuated to a Medical Facility.
- Neither Marine was wearing PPE, as it is not required while on the FOB.
- 1^s Marine is currently located at a Navy Medical Center.
- 2d Marine is in outpatient care at the Wounded Warrior Battalion (WWB) being treated for headaches and nausea. The Tympanic Membrane Rupture is expected to heal.



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- Ammunition Holding Areas (AHA) have been established at all Forward Operating Bases.
- The Battalion Commander has directed the inspection of all AT-4 Rockets. All grade 3 rockets are to be turned in.
- The Battalion Ammunition Technicians are circulating the battlefield to ensure compliance of all AHA's and to collect all grade 3 munitions.
- The Battalion Commander has directed reset training on the weapons handling/safety for all hands.
- A Command Investigation was conducted

155mm In Bore Det at Ft.
Bragg
Fuze functioned
prematurely



2 Corpsman and 8
Marines injured No
Corpsman to
administer 1st Aid





Questions?